

Title (en)

Hollow element for a heat pump and operation method

Title (de)

Hohlelement für eine Wärmepumpe und Betriebsverfahren

Title (fr)

Élément creux pour une pompe à chaleur et procédé de fonctionnement

Publication

EP 2476974 B1 20191120 (DE)

Application

EP 12151150 A 20120113

Priority

DE 102011008521 A 20110113

Abstract (en)

[origin: EP2476974A2] The element has a closed elongate hollow chamber comprising two regions (2, 4) between which a defined amount of working fluid e.g. methanol and ethanol, is displaceable. A sorbent material (3) i.e. activated carbon, is arranged in one of the regions for adsorption and desorption of the working fluid, and a capillary accommodating unit (5) is arranged in the other region for condensation and evaporation of the fluid. A valve (6) i.e. blow-off valve, is provided at a housing (1) of the element for repeatedly removing and/or introducing the working fluid from and/or into the hollow chamber. Independent claims are also included for the following: (1) a device for filling a hollow element (2) a method for operating a hollow element.

IPC 8 full level

F25B 17/08 (2006.01)

CPC (source: EP)

F25B 17/08 (2013.01); **Y02A 30/27** (2017.12); **Y02B 30/00** (2013.01)

Citation (examination)

- WO 2009070091 A1 20090604 - CLIMATEWELL AB PUBL [SE], et al
- WO 9850739 A2 19981112 - ZORNES DAVID A [US], et al
- WO 9937958 A1 19990729 - UNIV NOTTINGHAM [GB], et al
- EP 2476974 A2 20120718 - BEHR GMBH & CO KG [DE]

Cited by

EP2476974B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2476974 A2 20120718; EP 2476974 A3 20151007; EP 2476974 B1 20191120; DE 102011008521 A1 20120719

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